WHAT IS CLAIMED IS:

- 1 1. A semiconductor package comprising:
- a package body, containing an integrated-circuit chip having an optical sensor,
- 3 that can be fitted into an object having two parts suitable for being coupled, and in which
- 4 package a board provided with electrical connection tracks is placed in a position such that the
- 5 optical sensor is located facing an opening in this object;
- 6 wherein the said package body carries, on the one hand, resilient rear electrical
- 7 connection leads that project from its rear face and are electrically connected to the said chip and
- 8 has, on the other hand, a front bearing surface such that, when the said package body is fitted
- 9 into the said object and when the said parts of this object are coupled, the front bearing surface of
- the said body bears on an inner surface of a part of the object and the said resilient rear leads bear
- resiliently on the respective electrical connection tracks of the board.
- 1 2. The package according to Claim 1, wherein the said package body and the object
- 2 have respective positioning surfaces that are perpendicular to the said bearing surfaces.
- 1 3. The package according to Claim 1, wherein the object has an internal housing for
- 2 housing part of the package body.
- 1 4. The package according to Claim 1, wherein the resilient rear electrical connection
- 2 leads are curved.

- 1 5. The package according to Claim 1, wherein the optical sensor is located on an opposite side from the said resilient rear electrical connection leads.
- 1 6. The package according to Claim 1, wherein the internal surface of the object
- 2 extends around the aforementioned opening.

l	7. A product, comprising:
2	a first cover;
3	a printed circuit board associated with the first cover;
4	a semiconductor package having a first surface and a second surface, the package
5	including a plurality of resilient electrical connection leads extending from the first surface, the
6	semiconductor package positioned with its first surface adjacent the printed circuit board; and
7	a second cover mating with the first cover to define a cavity enclosing the printed
8	circuit board and the semiconductor package, the mating of the second cover to the first cover
9	exerting pressure against the second surface of the semiconductor package and causing the
10	resilient electrical connection leads to bear resiliently on the printed circuit board.
1	8. The product as in claim 7, wherein the second cover has an internal housing for
2	housing part of the semiconductor package.
1	9. The product as in claim 7, wherein the resilient electrical connection leads are
2	curved.
1	10. The product as in claim 7 wherein the semiconductor package includes an optical
2	sensor assembly associated with the second surface and wherein the second cover includes an
3	aperture therein aligned with the optical sensor assembly when the second cover is mated with
4	the first cover.

1	11.	A product, comprising:		
2		a split enclosure that mates together;		
3		a printed circuit board located within the enclosure;		
4		a semiconductor package also located within the enclosure, the package including		
5	a plurality of resilient electrical connection leads extending therefrom and positioned in contact			
6	with the prin	ted circuit board, the leads being resiliently deformed in response to pressure		
7	exerted by mating of the split enclosure on opposite sides of the semiconductor package and			
8	printed circuit board.			
1	12.	The product as in claim 11, wherein the second cover has an internal housing for		
2	housing part of the semiconductor package.			
1	13.	The product as in claim 11, wherein the resilient electrical connection leads are		
2	curved.			
1	14.	The product as in claim 11 wherein the semiconductor package includes an		
2	optical sensor	assembly and wherein the split enclosure includes an aperture therein aligned with		
3	the optical sensor assembly when the split enclosure is mated.			

1

15. A semiconductor package comprising:

2	an integrated circuit chip;
3	a metal leadframe to which the integrated circuit chip is attached, the metal
4	leadframe including a plurality of electrical connection leads made of a pressure deformable
5	resilient material;
6	a package encapsulating the integrated circuit chip and metal leadframe, the
7	plurality of electrical connection leads extending therefrom in a curved shape under a bottom
8	surface thereof.
1	16. The package of claim 15 wherein the integrated circuit chip includes an optical
2	sensor and the package includes an aperture aligned with the optical sensor.

1

1	17.	A semiconductor package, comprising:
2		an integrated circuit chip;
3		a plurality of electrical connection leads made of a pressure deformable resilient
4	material, each	lead having a first and second end; and
5		a package enclosing the integrated circuit chip and through which a central
6	portion of eac	ch lead passes, the package causing the first end of each lead to resiliently contact a
7	surface of the	integrated circuit chip and the second end of each lead extending from the package
8	in a curved sh	ape under a bottom surface thereof.
1	18.	The package of claim 17 wherein the integrated circuit chip includes an optical
2	sensor and the	e package includes an aperture aligned with the optical sensor.